

BASIC ARCHITECTURE OF DESKTOP FILTER SYSTEM
Fig 1

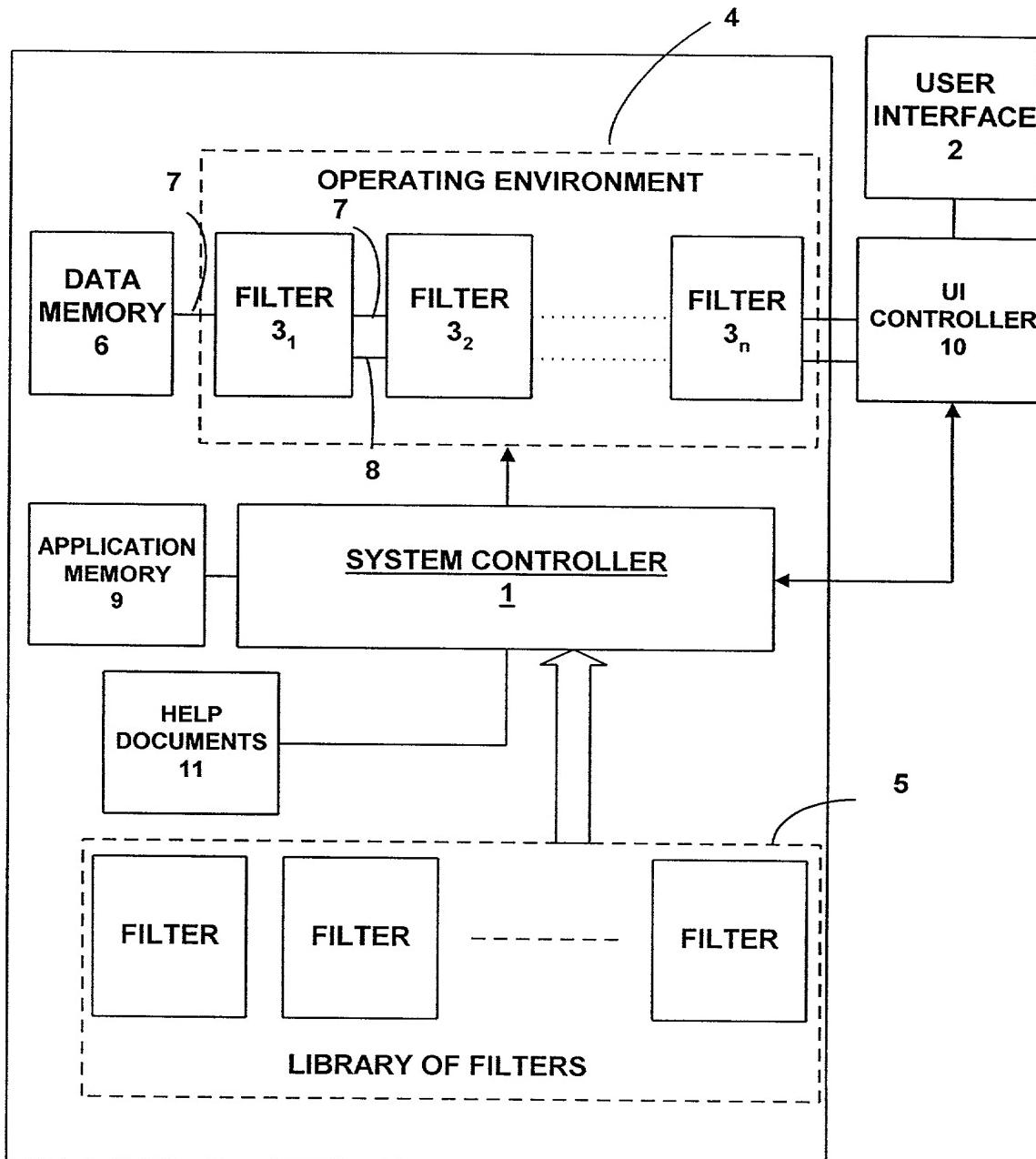


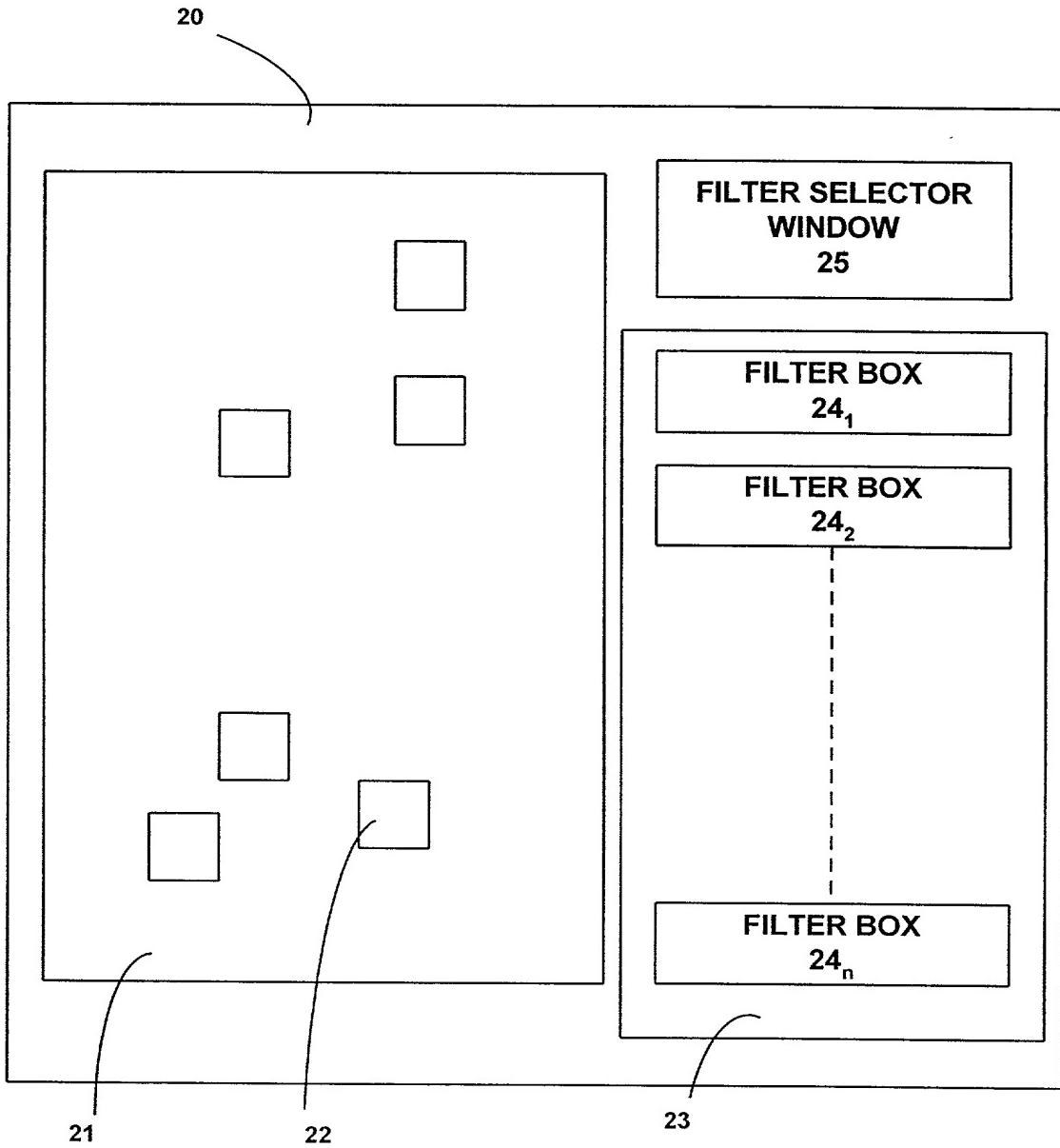
Fig 2**DISPLAY SCREEN OF THE GRAPHICAL
USER INTERFACE**

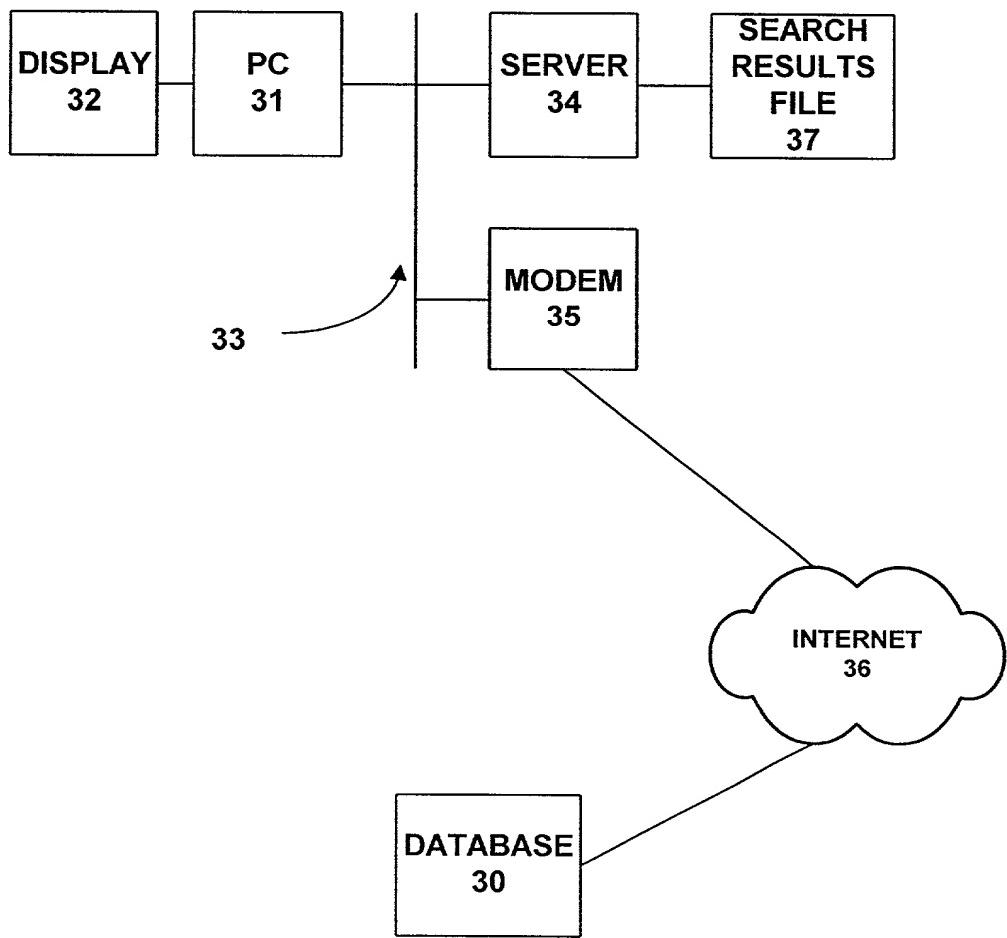
Fig 3**DATABASE SEARCH VIA THE INTERNET**

Fig 4

FILTER SELECTOR WINDOW

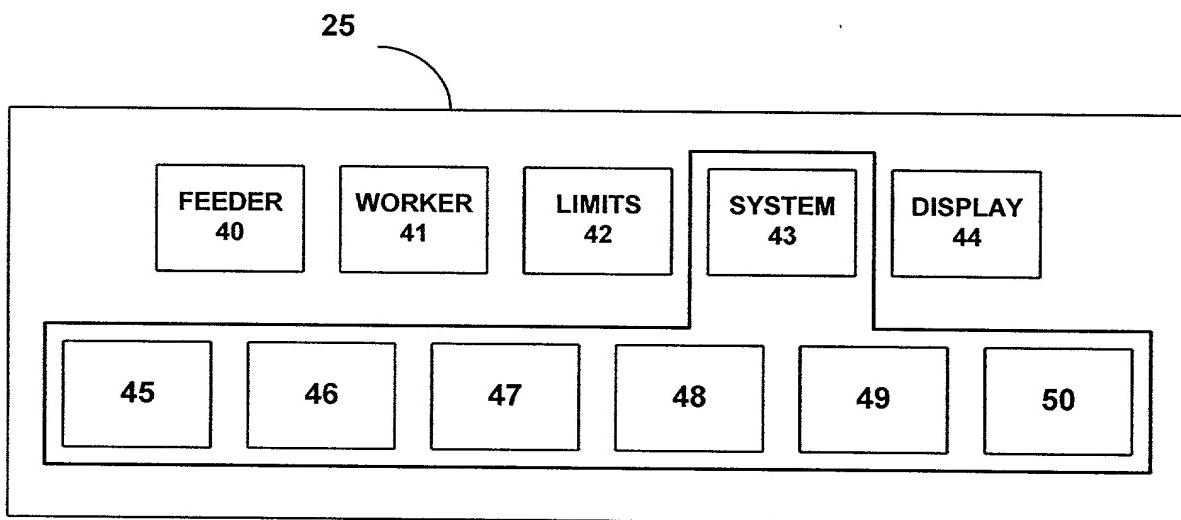


Fig 5

GRAPHICAL USER INTERFACE USED IN THE EXAMPLE OF PATENT DOCUMENT RETRIEVAL

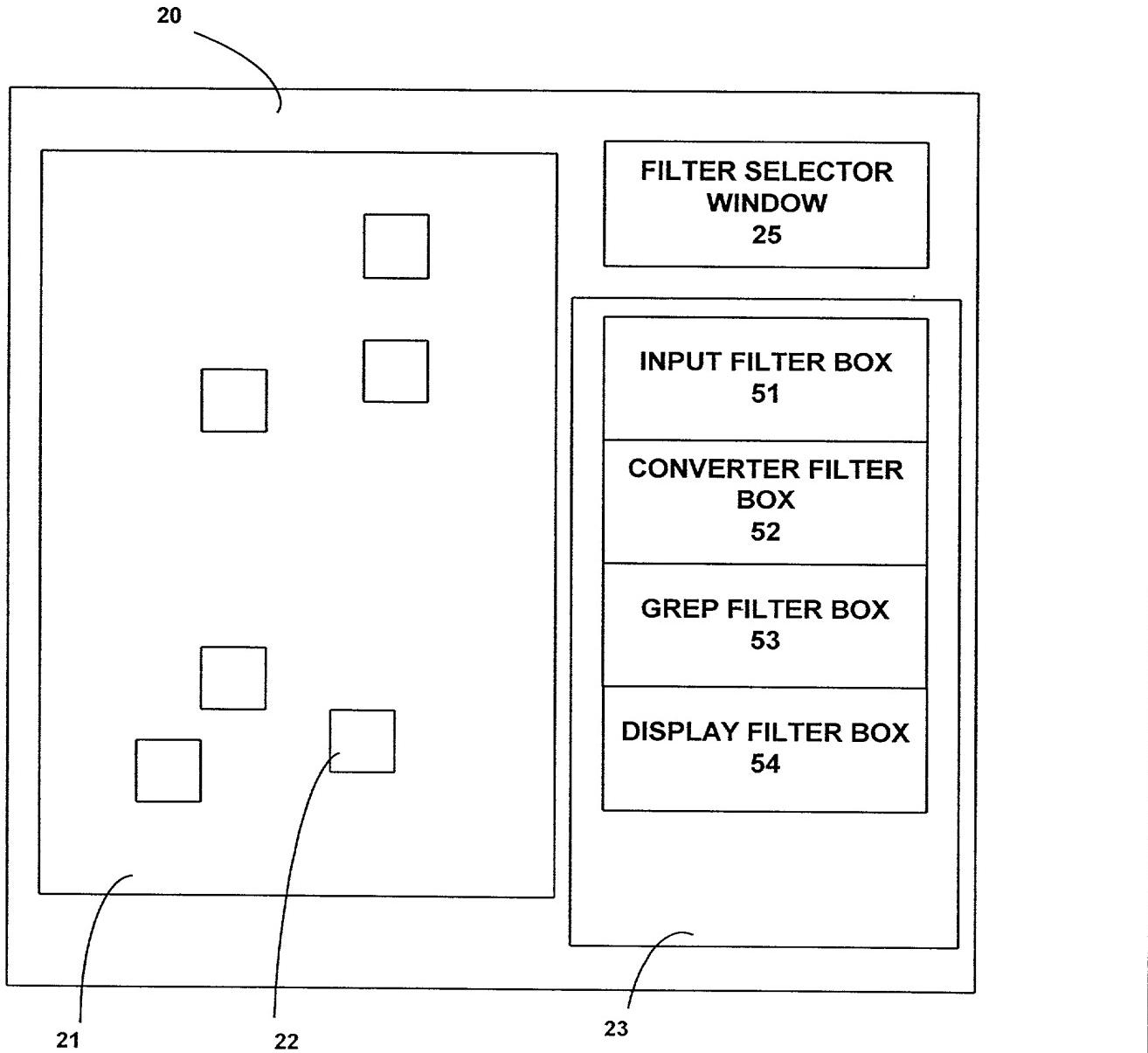


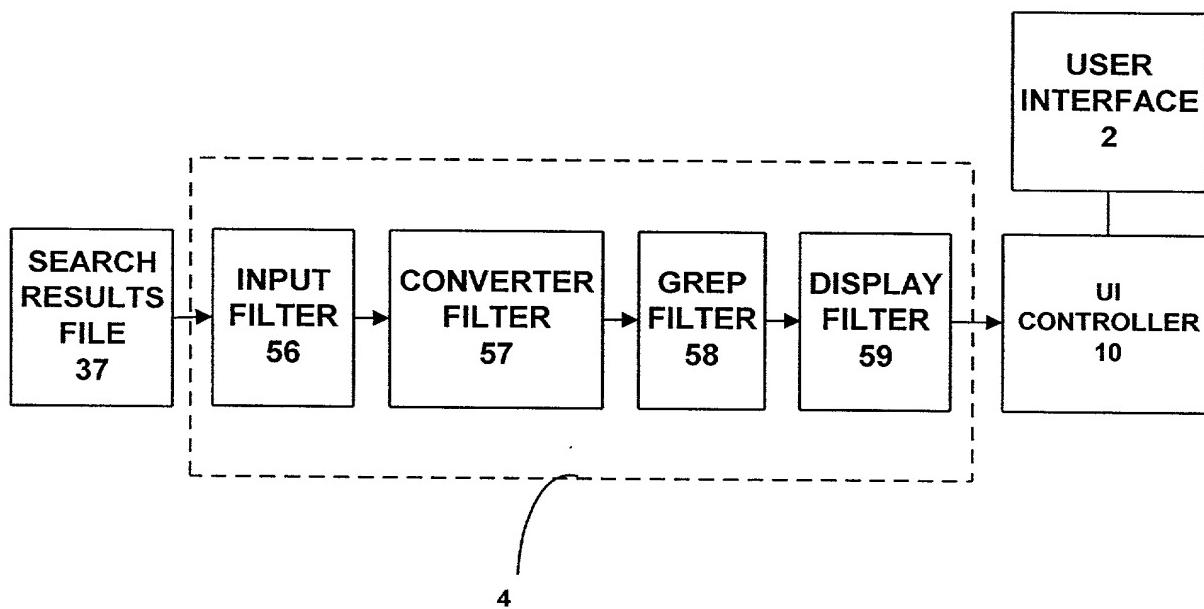
Fig 6**FILTER SEQUENCE FOR DATABASE SEARCH RESULTS**

Fig 7A

GREP FILTER BOX SHOWING MENU

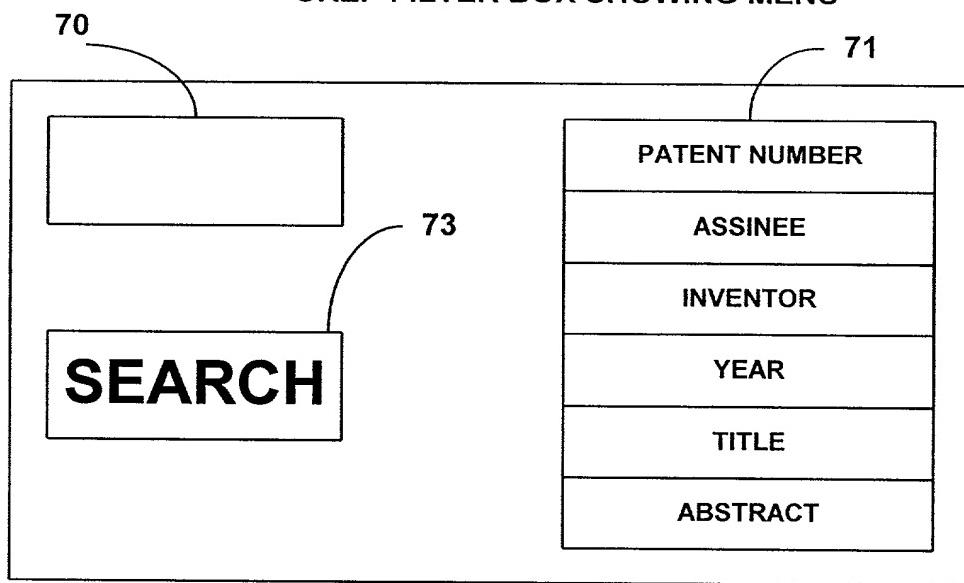


Fig 7B

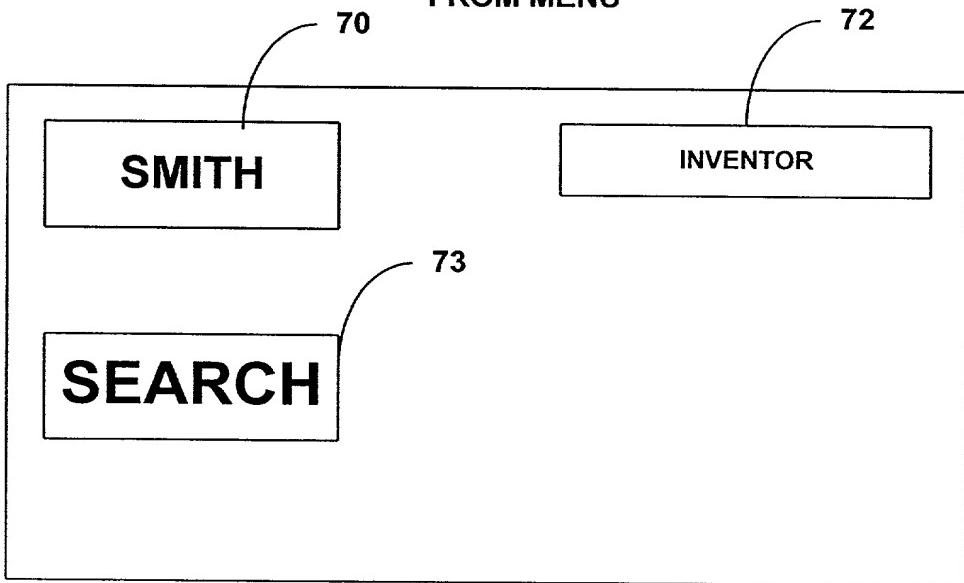
GREP FILTER BOX AFTER SELECTION
FROM MENU

Fig 8

FILTER SEQUENCE FOR PROCESSING A COLLECTION OF DATA OBJECTS

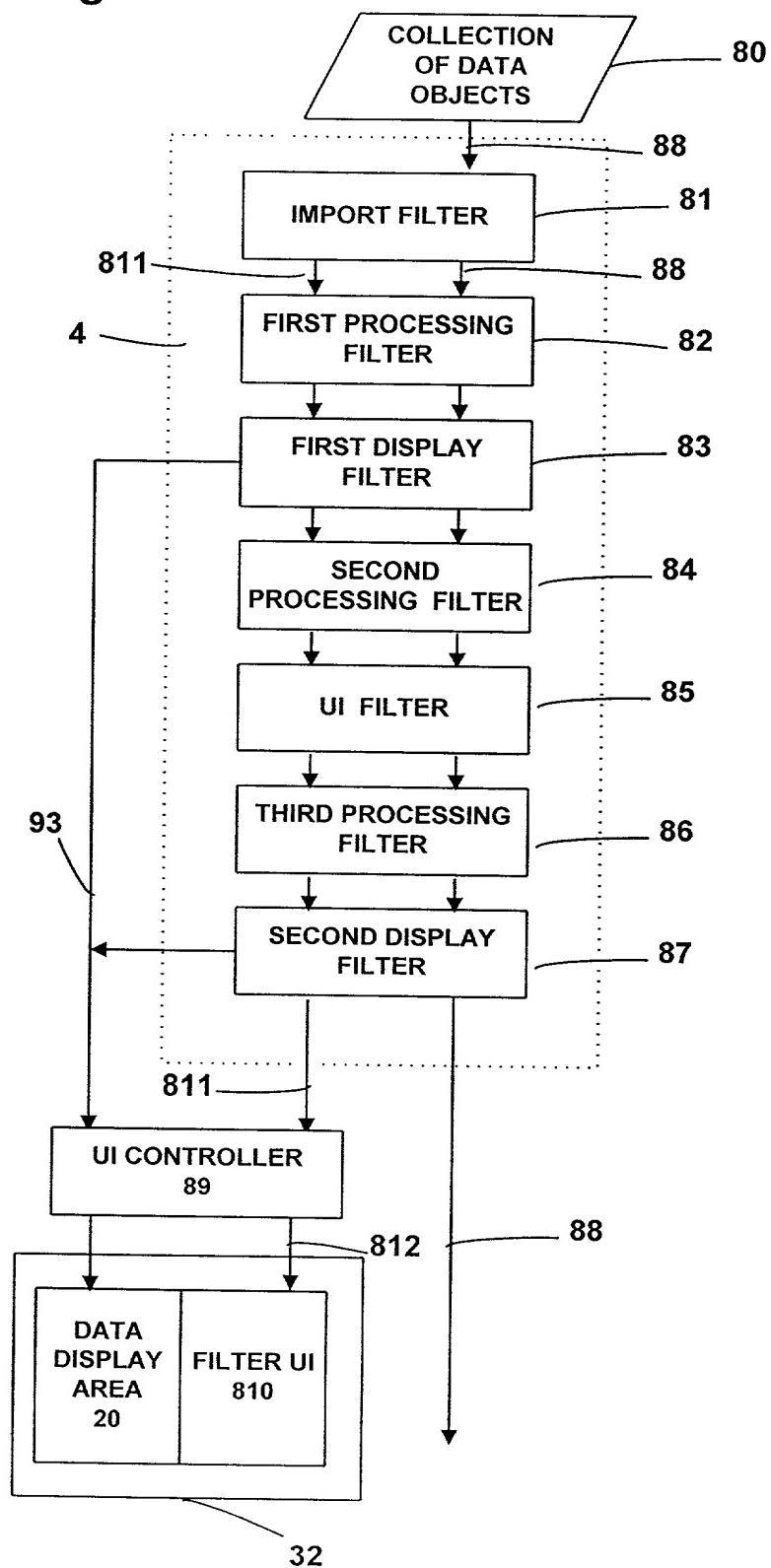


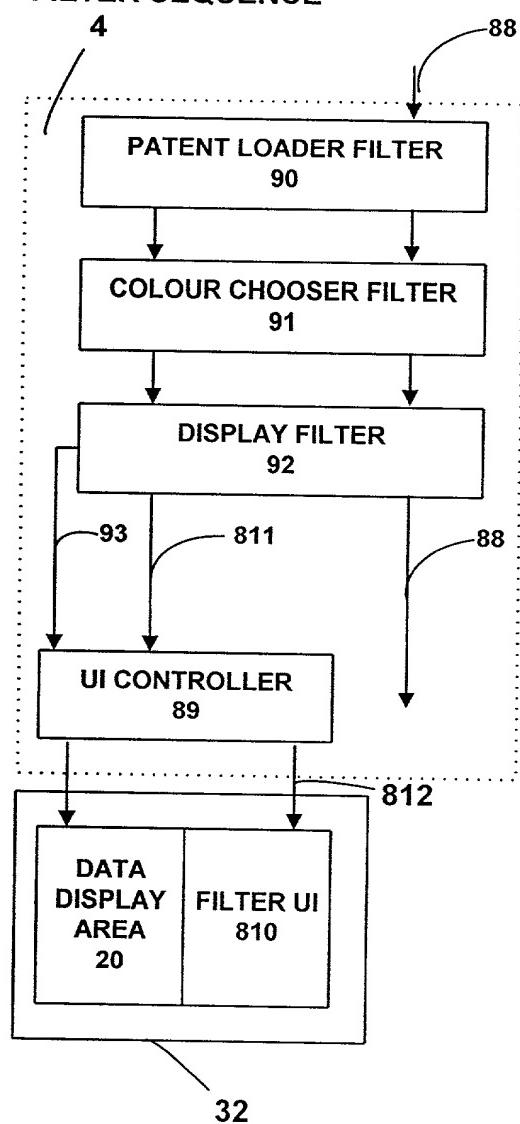
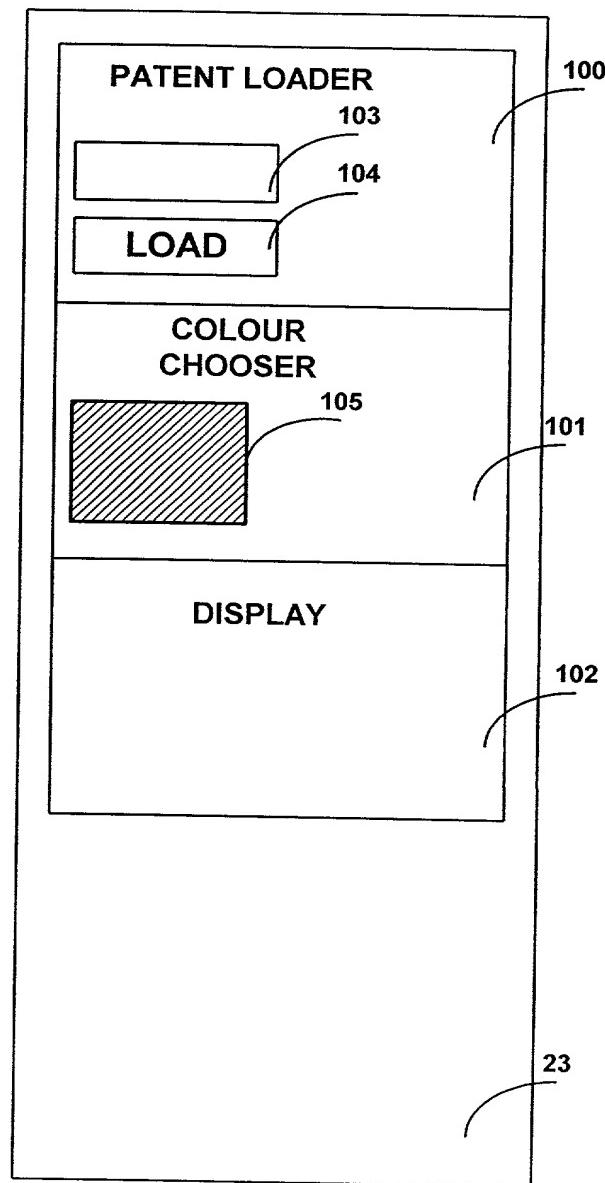
Fig 9**FILTER SEQUENCE****Fig 10****FILTER DISPLAY WINDOW**

Fig 11

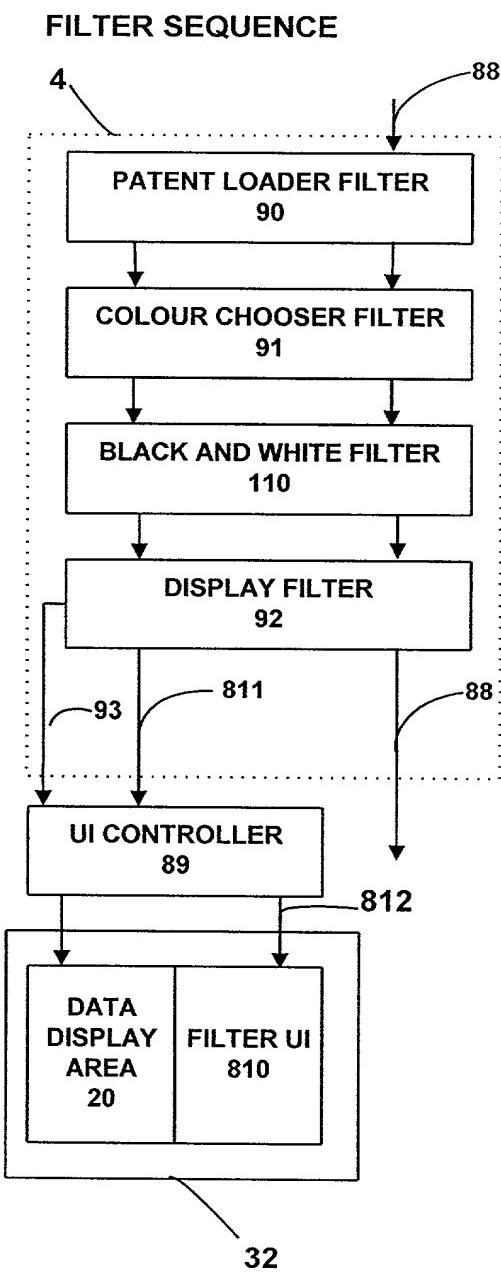


Fig 12

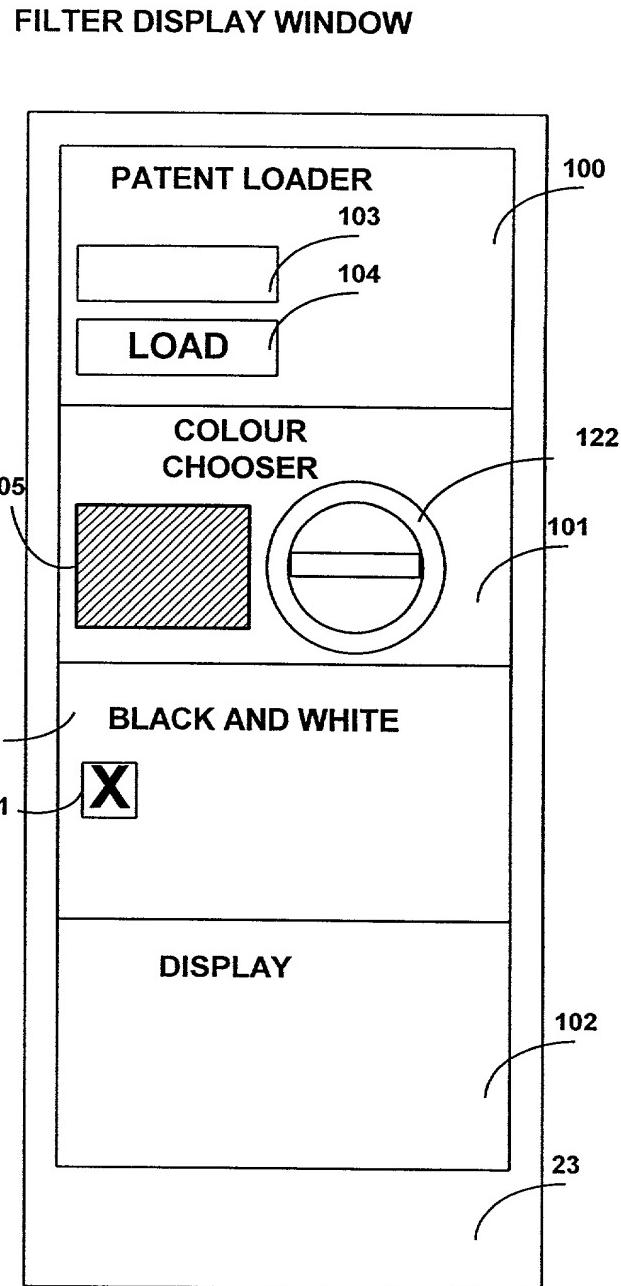


Fig 13

FILTER SEQUENCE WITH
TOOLBAR FILTER

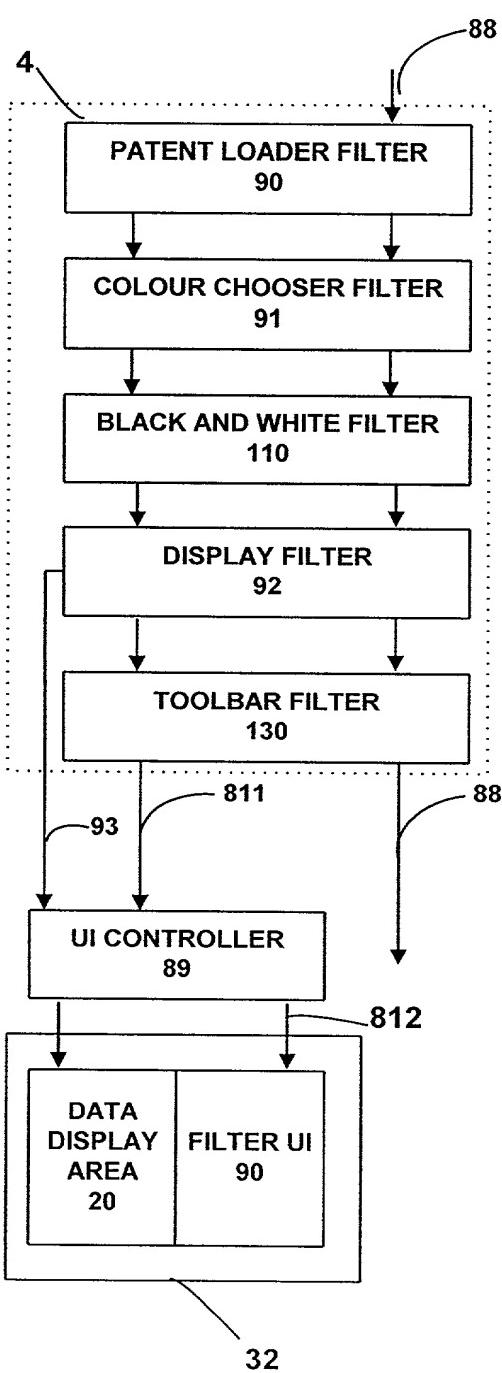


Fig 14

FILTER DISPLAY WINDOW
WITH TOOLBAR FILTER BOX

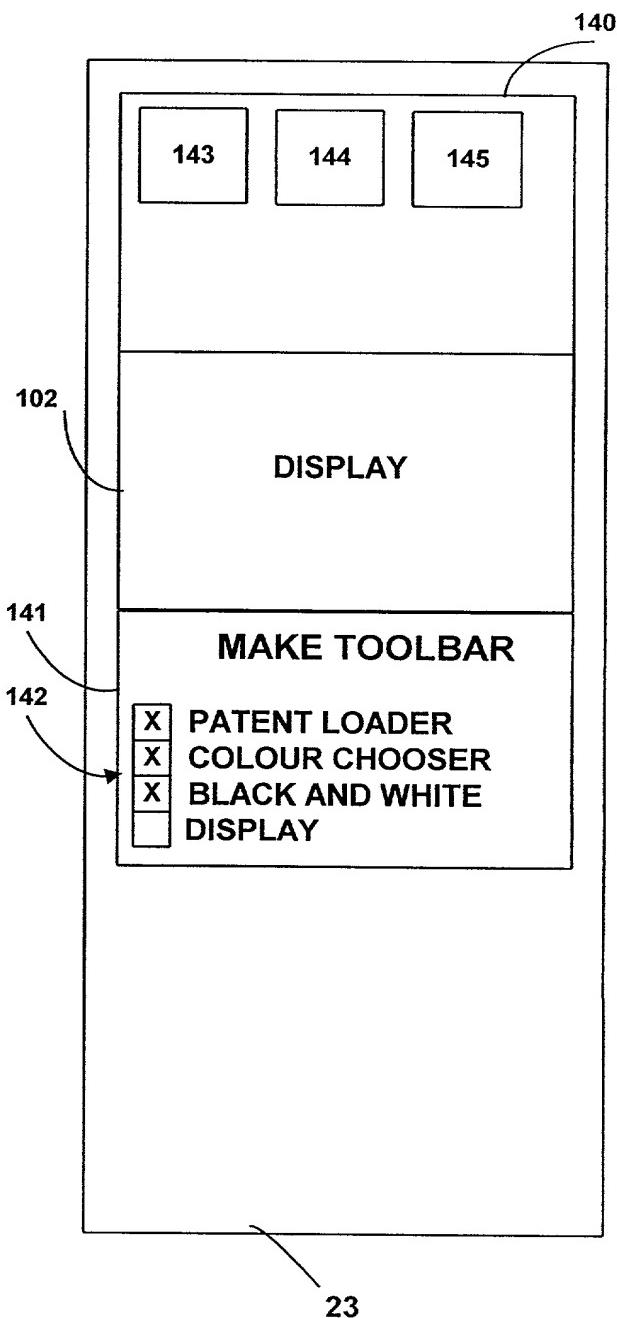


Fig 15

FILTER DISPLAY WINDOW WITH TOOLBAR FILTER BOX
HIDDEN

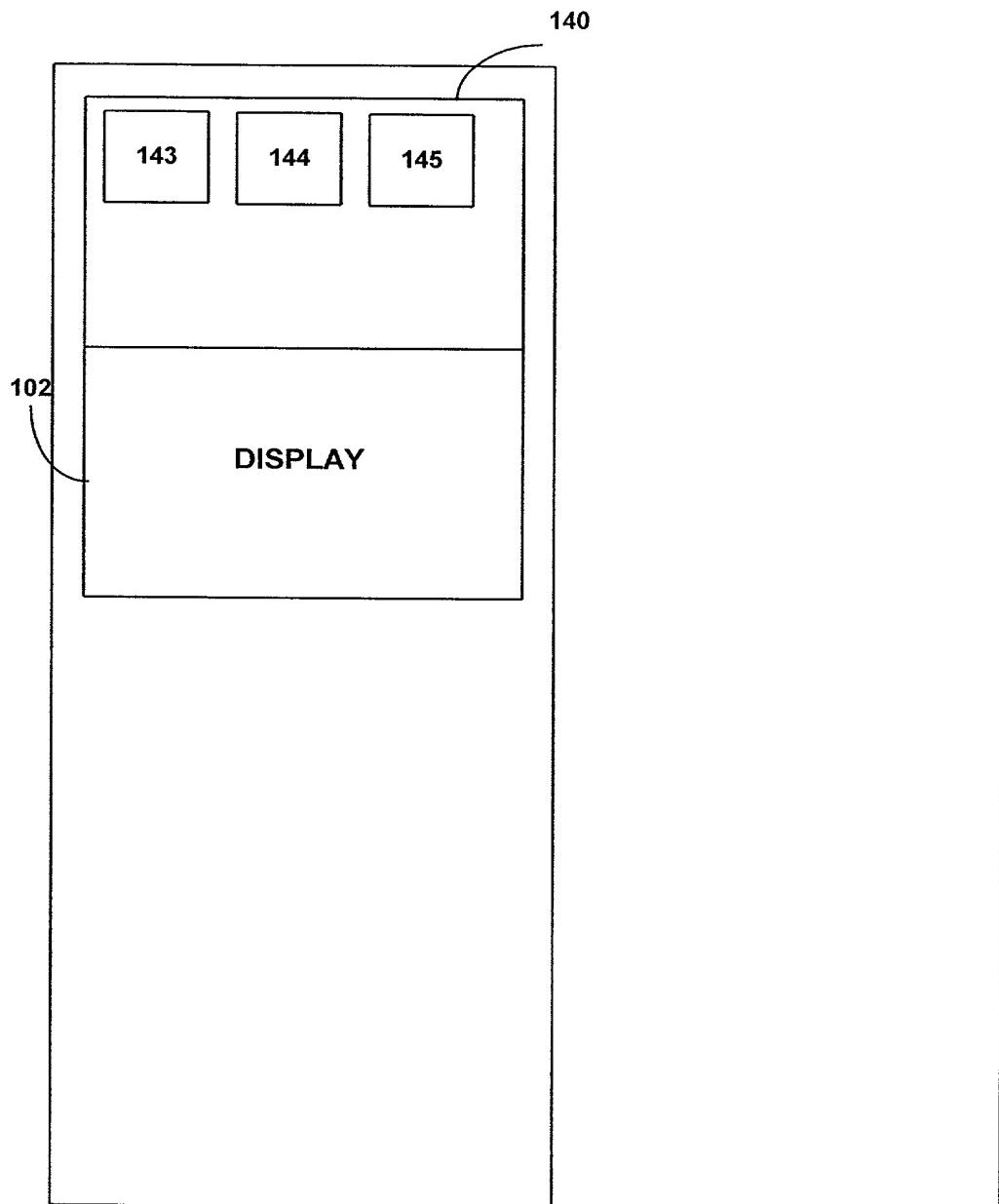


Fig 16

FILTER SEQUENCE WITH ADD -DATA-CONTROLS FILTER

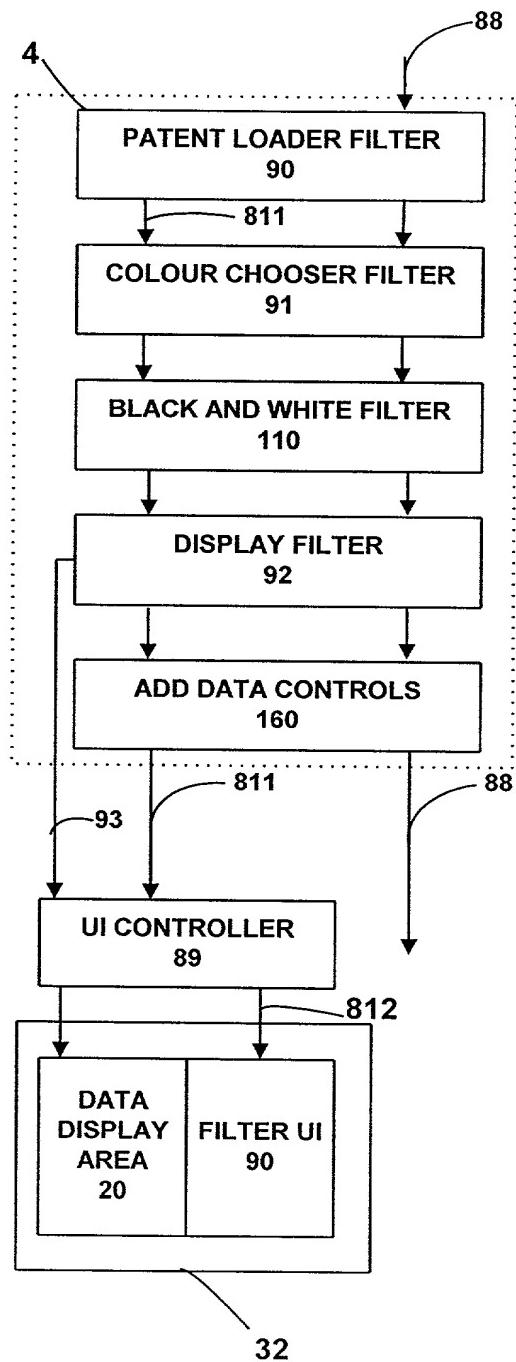


Fig 17

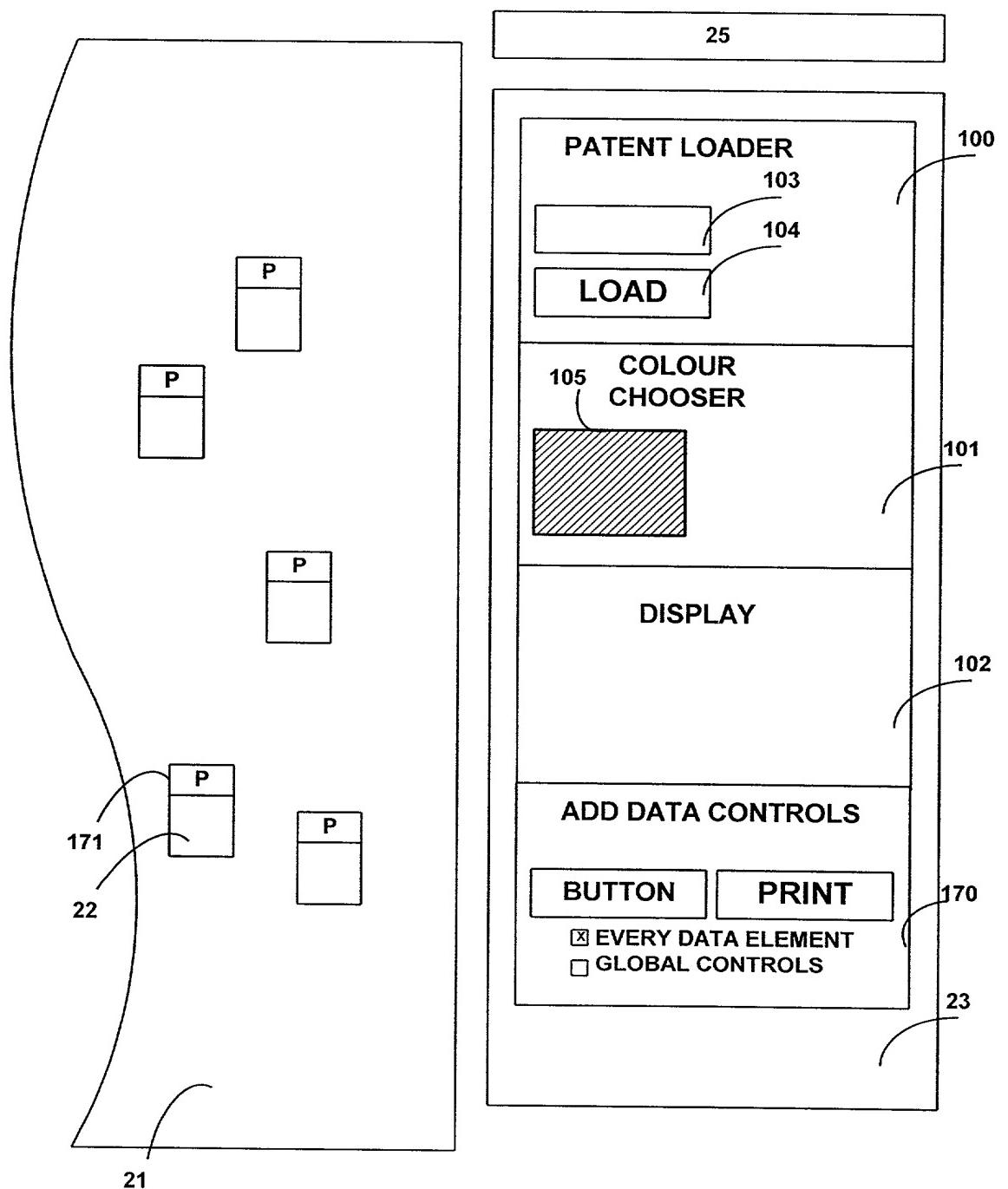
GUI FOR FILTER SEQUENCE INCLUDING
ADD-DATA-CONTROLS FILTER

Fig 18

APPLICATION DOWNLOADED TO PORTABLE COMPUTER DEVICE

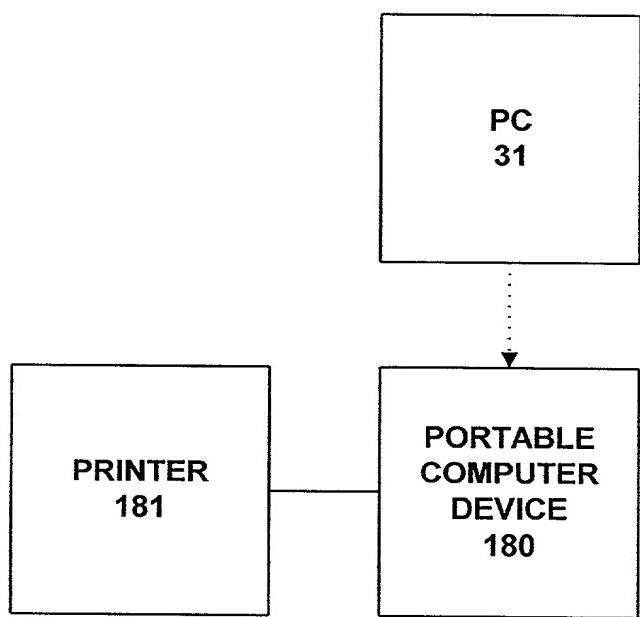


Fig 19 FILTER SEQUENCE FOR A PRINTER CONTROL APPLICATION

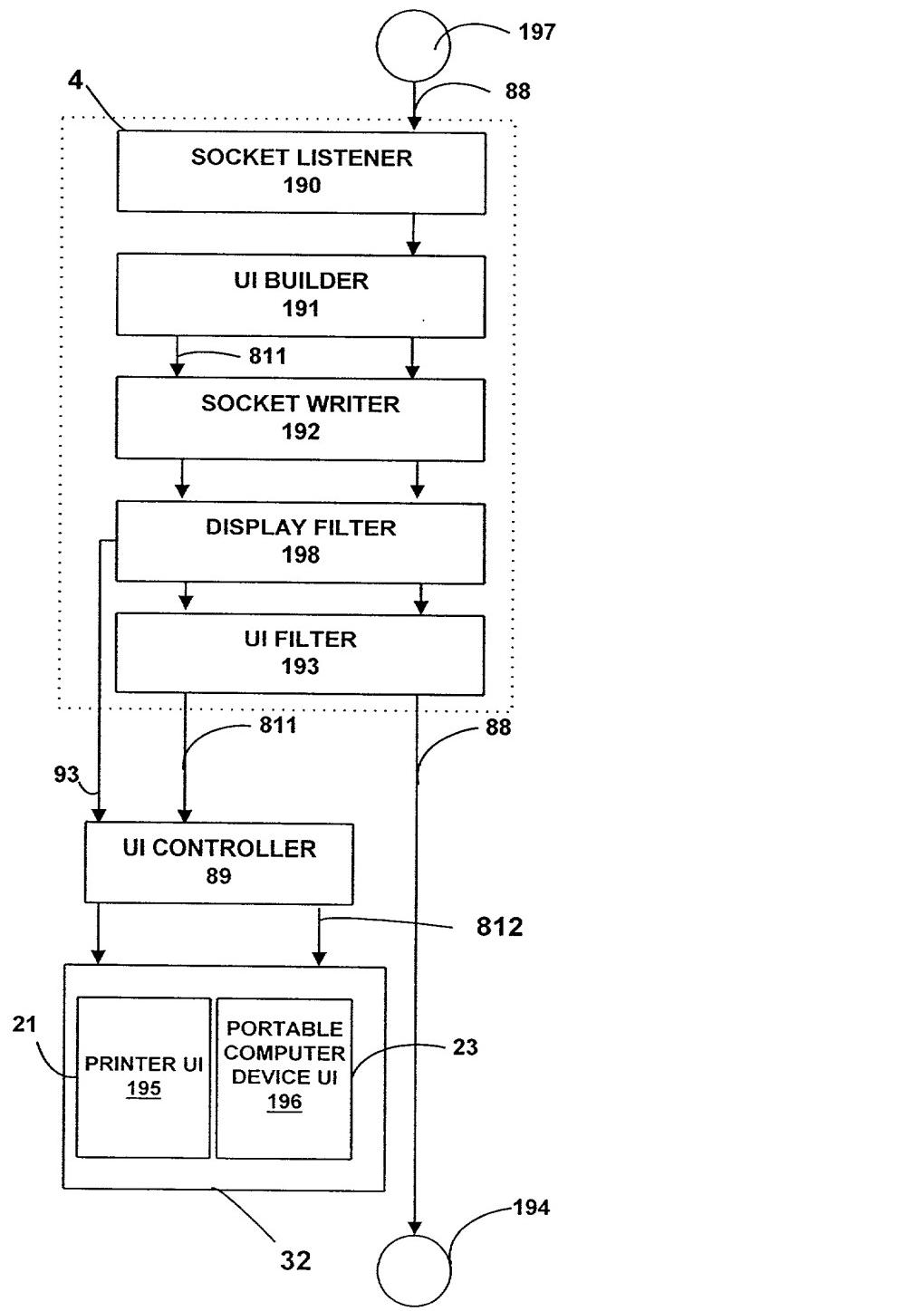


Fig 20 DEVELOPING AN APPLICATION FOR A PRINTER
USER INTERFACE

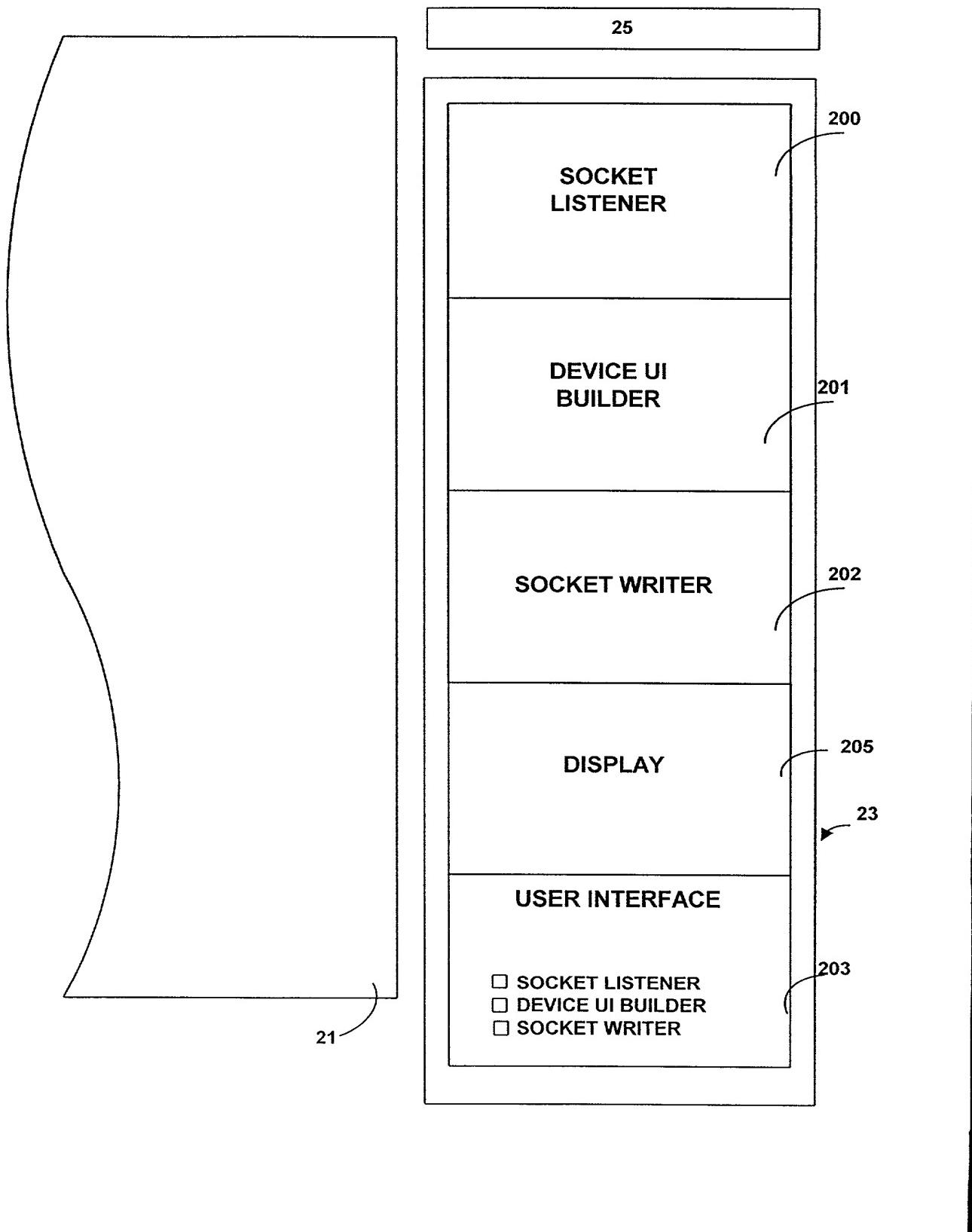


Fig 21 PRINTER USER INTERFACE FOR BLACK AND WHITE PRINTER

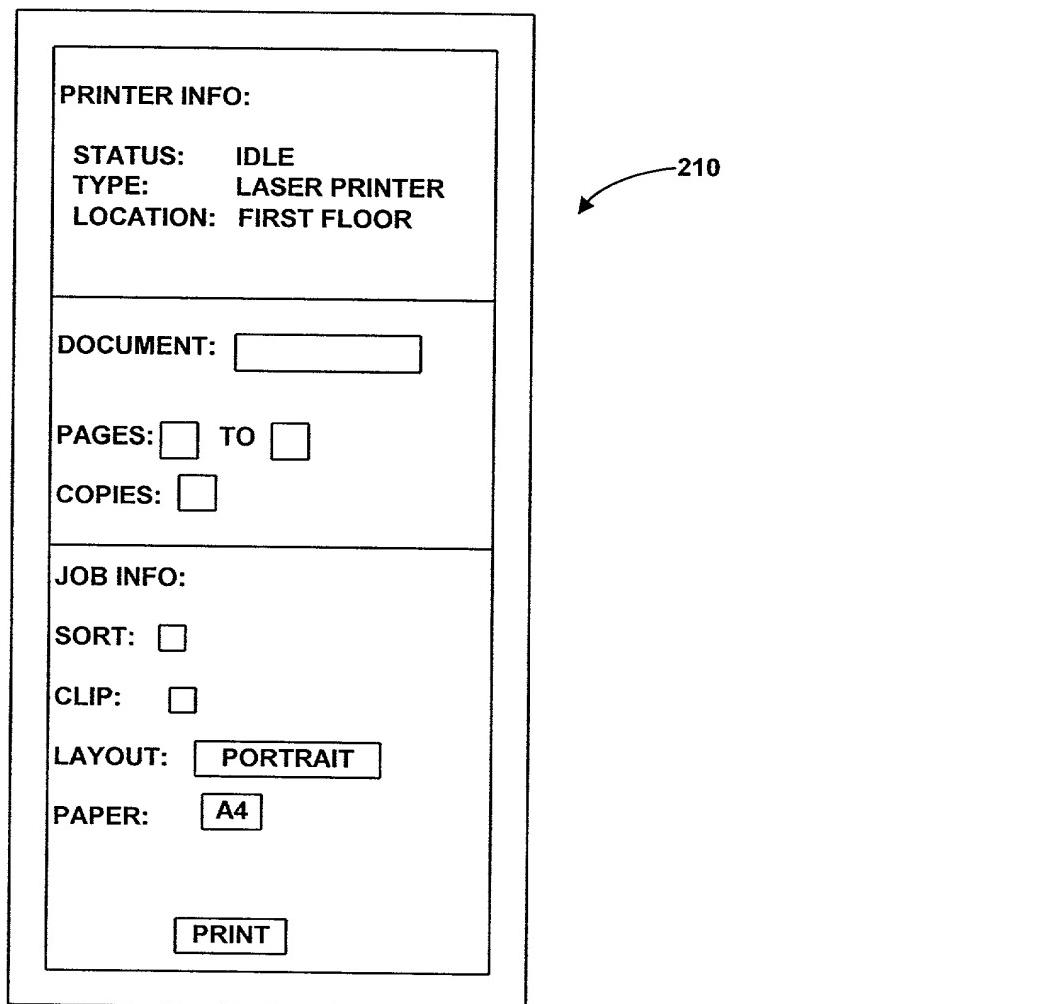


Fig 22 PRINTER USER INTERFACE FOR COLOUR PRINTER

PRINTER INFO:

STATUS: BUSY
TYPE: COLOUR LASER
LOCATION: FIRST FLOOR

DOCUMENT: []

PAGES: [] TO []
COPIES: []

JOB INFO:

SORT: []
CLIP: []

LAYOUT: [PORTRAIT]
PAPER: [A4]

COLOUR:
PROFILE: [ICC] [PRINT]
TRUE BLACK: []

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Fig 23
USER INTERFACE FOR FACSIMILE MACHINE

The diagram illustrates the user interface for a facsimile machine, structured into three main sections: FAX INFO, DESTINATION NUMBER, and JOB INFO.

FAX INFO:

- STATUS: BUSY
- TYPE: CANON
- LOCATION: GROUND FLOOR

DESTINATION NUMBER:

NUMBER OF RETRIES:

JOB INFO:

PRINT REPORT:

QUALITY: HIGH

SEND

A curved arrow labeled "230" points from the right side towards the top right corner of the DESTINATION NUMBER section.

Fig 24

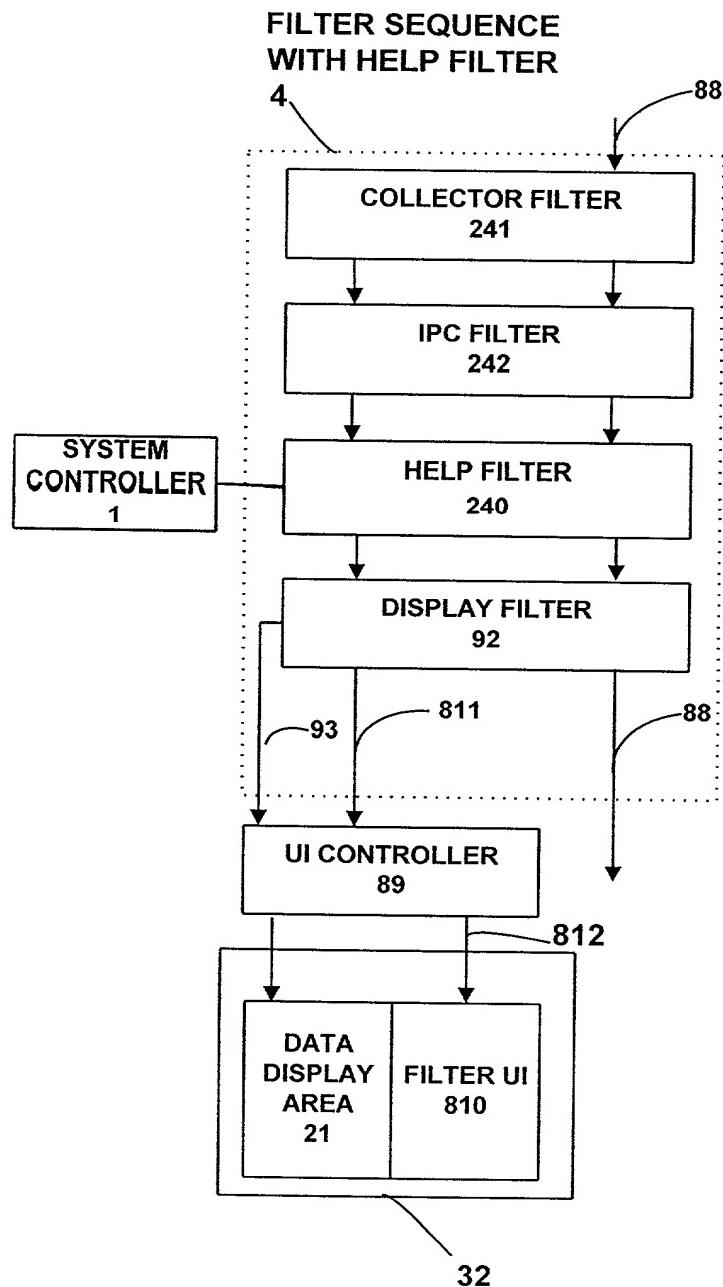


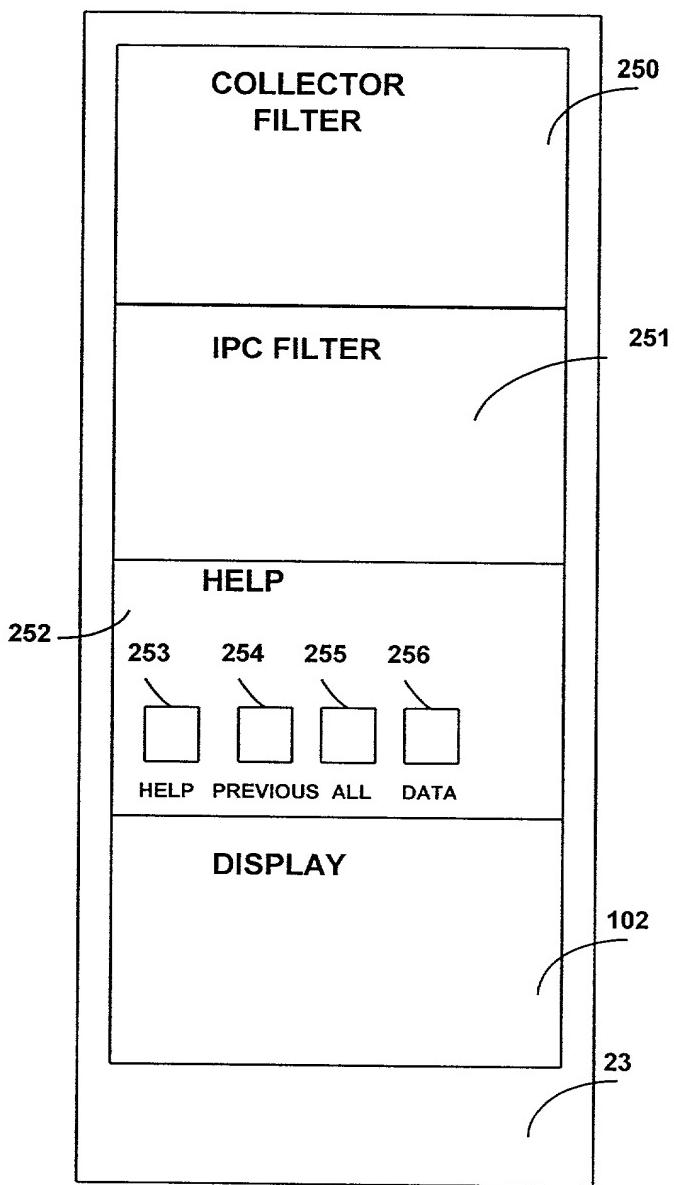
Fig 25**FILTER DISPLAY WINDOW WITH
HELP FILTER BOX**

Fig 26

DATA DISPLAY WHEN 'HELP'
BUTTON OR 'PREVIOUS' BUTTON
SELECTED

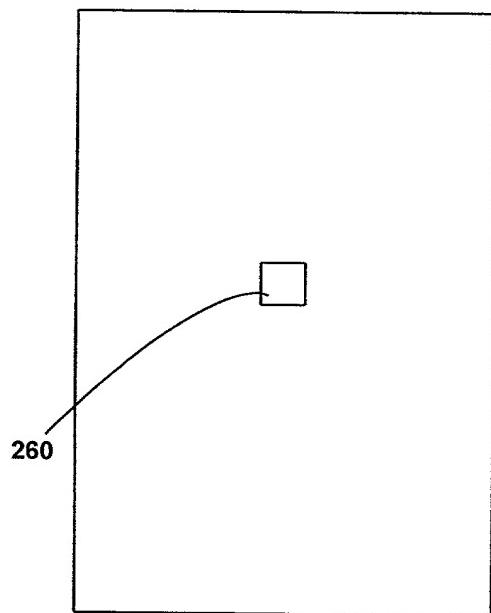


Fig 28

DATA DISPLAY WHEN 'ALL'
BUTTON SELECTED

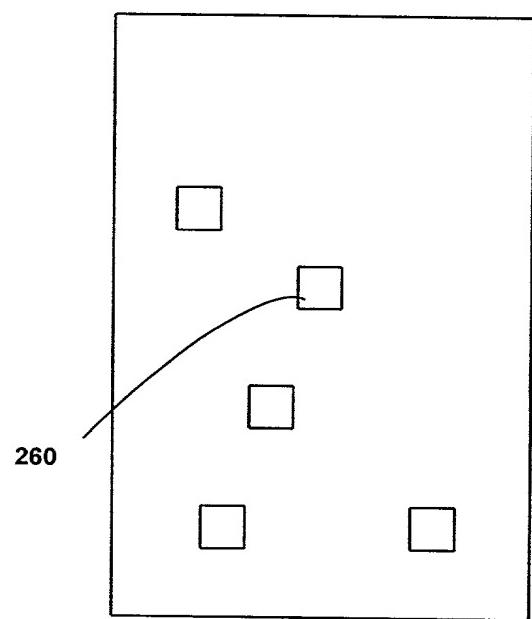


Fig 27

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The IPC Filter

Purpose

To pass through only those patent objects that have an IPC class conforming to the boolean expression input

Applicability

Use on patent objects containing IPC metadata.

Output

The patent objects satisfying the IPC expression.

Details

The filter loads in a dataset containing the IPC hierarchy. Currently this is a complete list and is rather large - we may limit it in the future. A data structure is built that allows us to identify subclasses for any particular class.

A user can enter a simple boolean expression to query on. For example he can ask for "G06K+ AND NOT G06K 011/00" which means that he wants any patents that are in class G06K and any of its subclasses except for any patents that are in G06K 011/00 and any of those subclasses.

Other boolean operators available are : AND, OR, AND NOT, OR NOT.

The use of "*" allows the user to match on any string.

Example

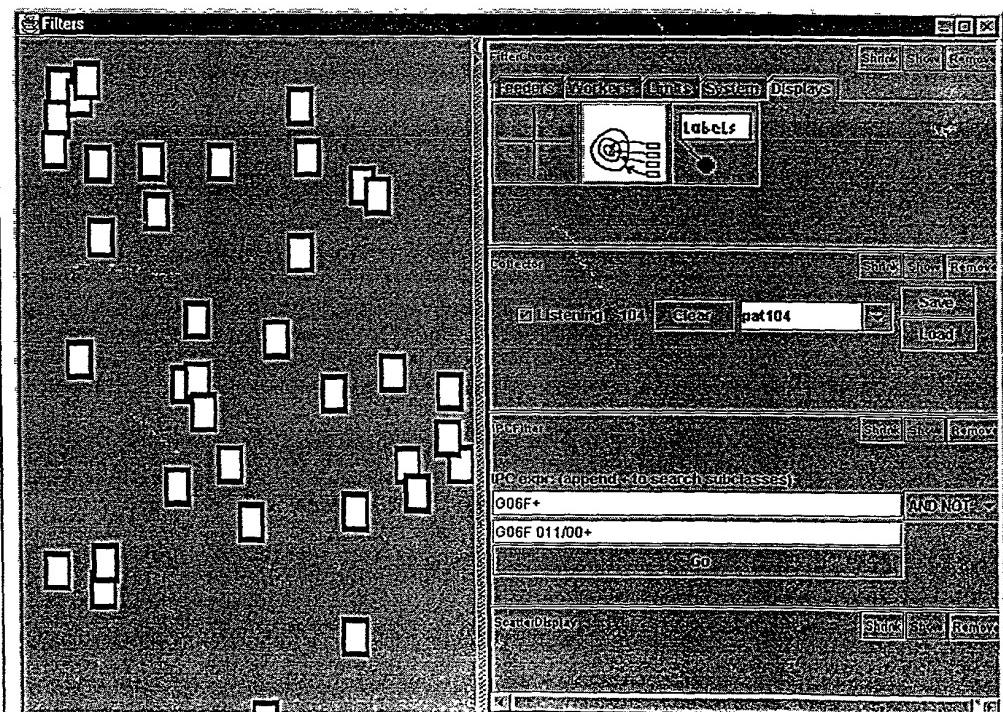


Fig 29

FILTER SEQUENCE INCLUDING ADAPTIVE
HELP FILTER

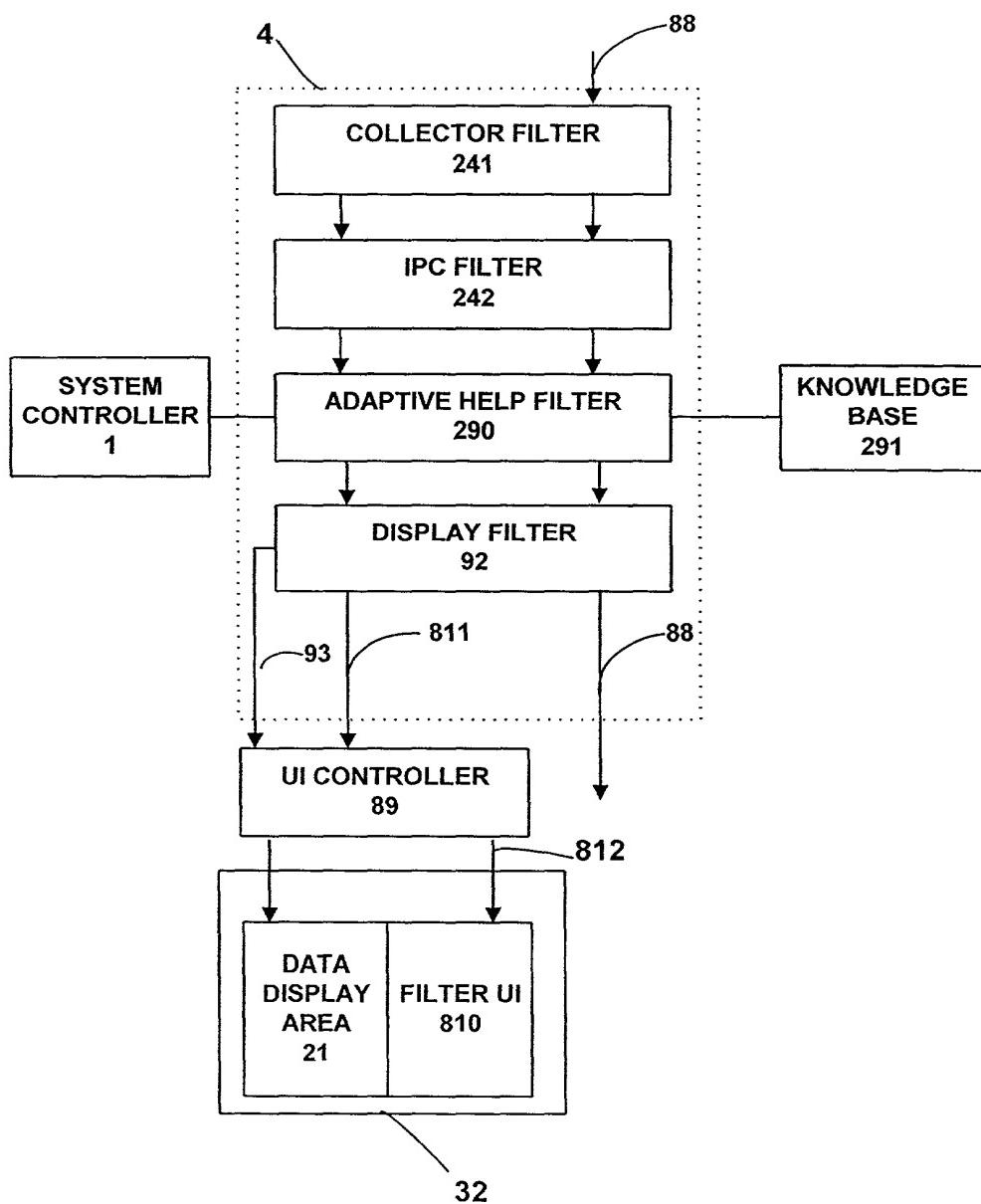
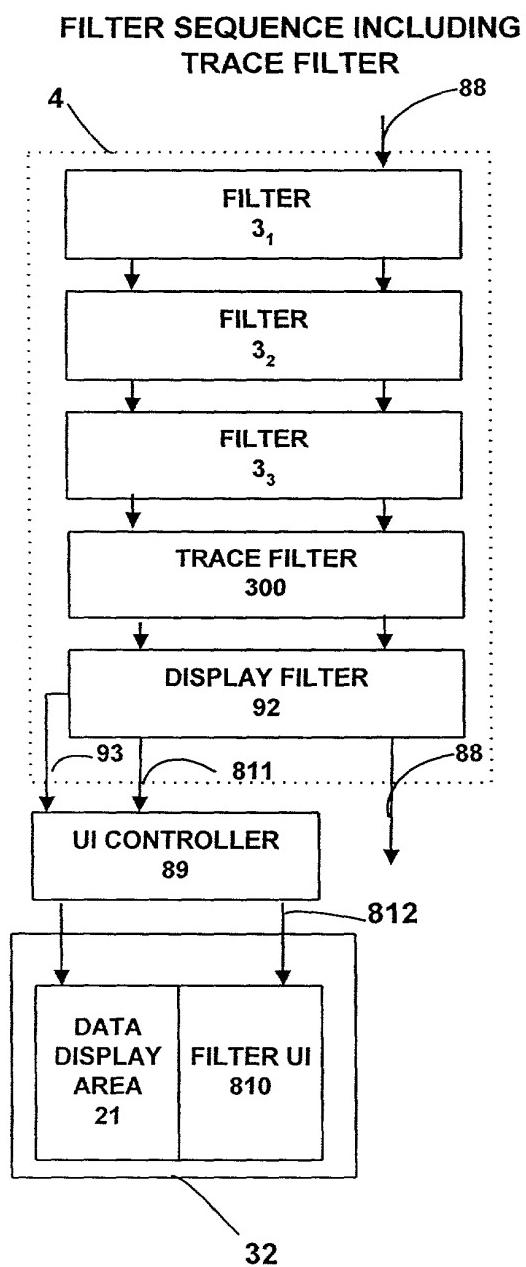


Fig 30**Fig 31**

DATA DISPLAY OUTPUT OF TRACE FILTER

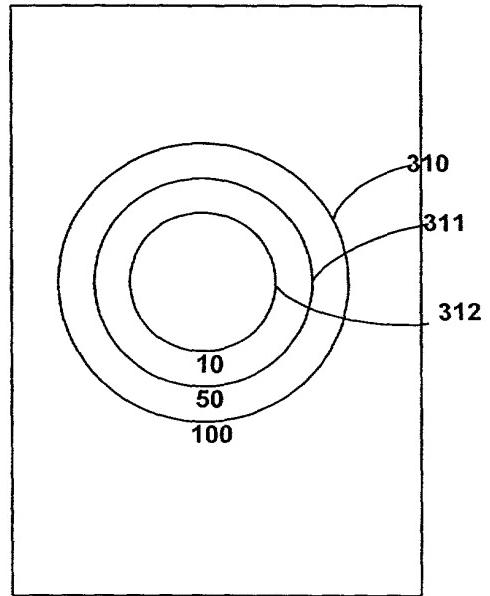


Fig 32 BIDIRECTIONAL FILTERS

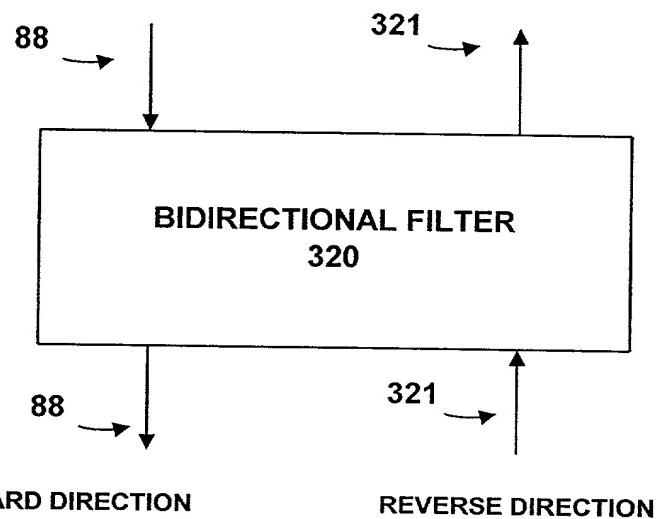
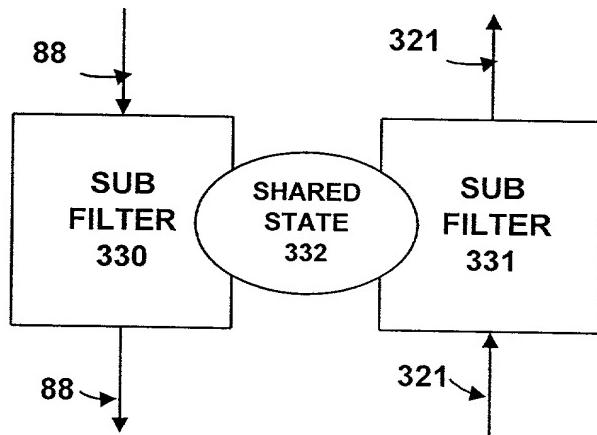


Fig 33



**WORD PROCESSING APPLICATION
FORMED FROM FILTER SEQUENCE
INCLUDING BIDIRECTIONAL FILTERS**

Fig 34

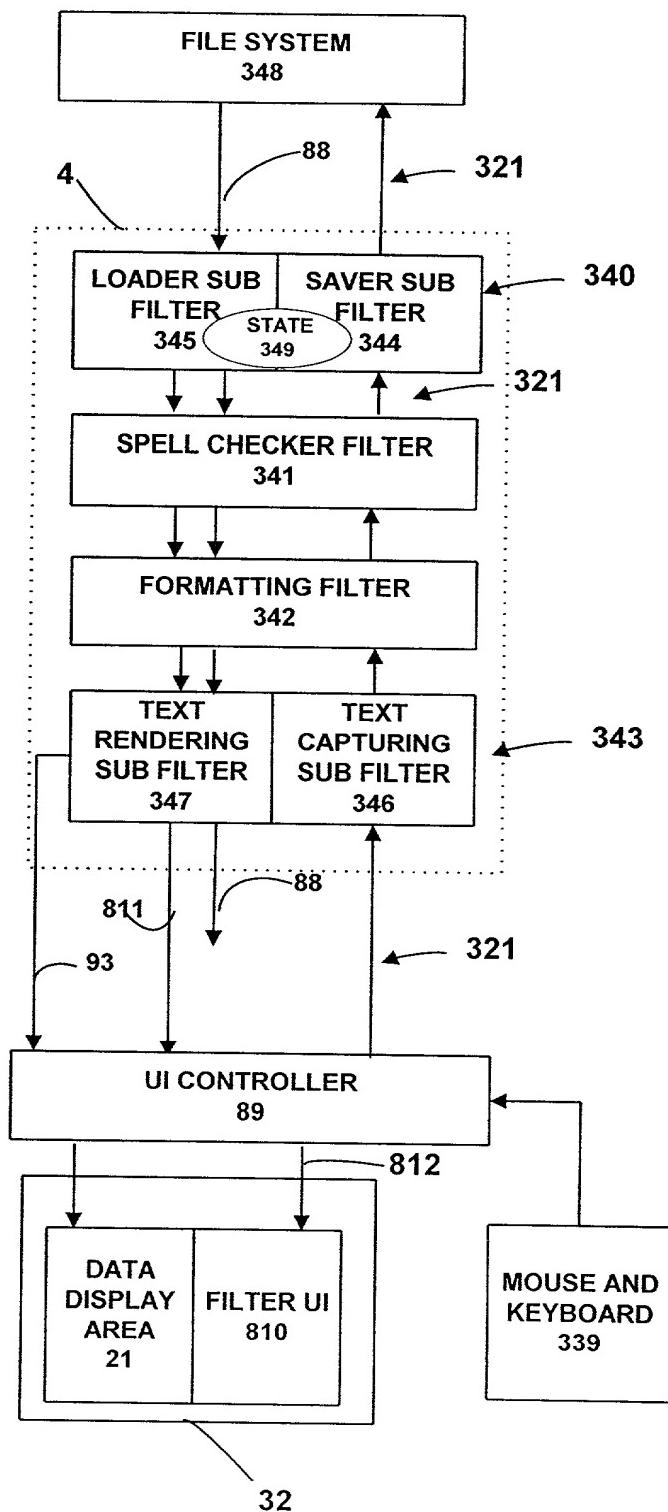


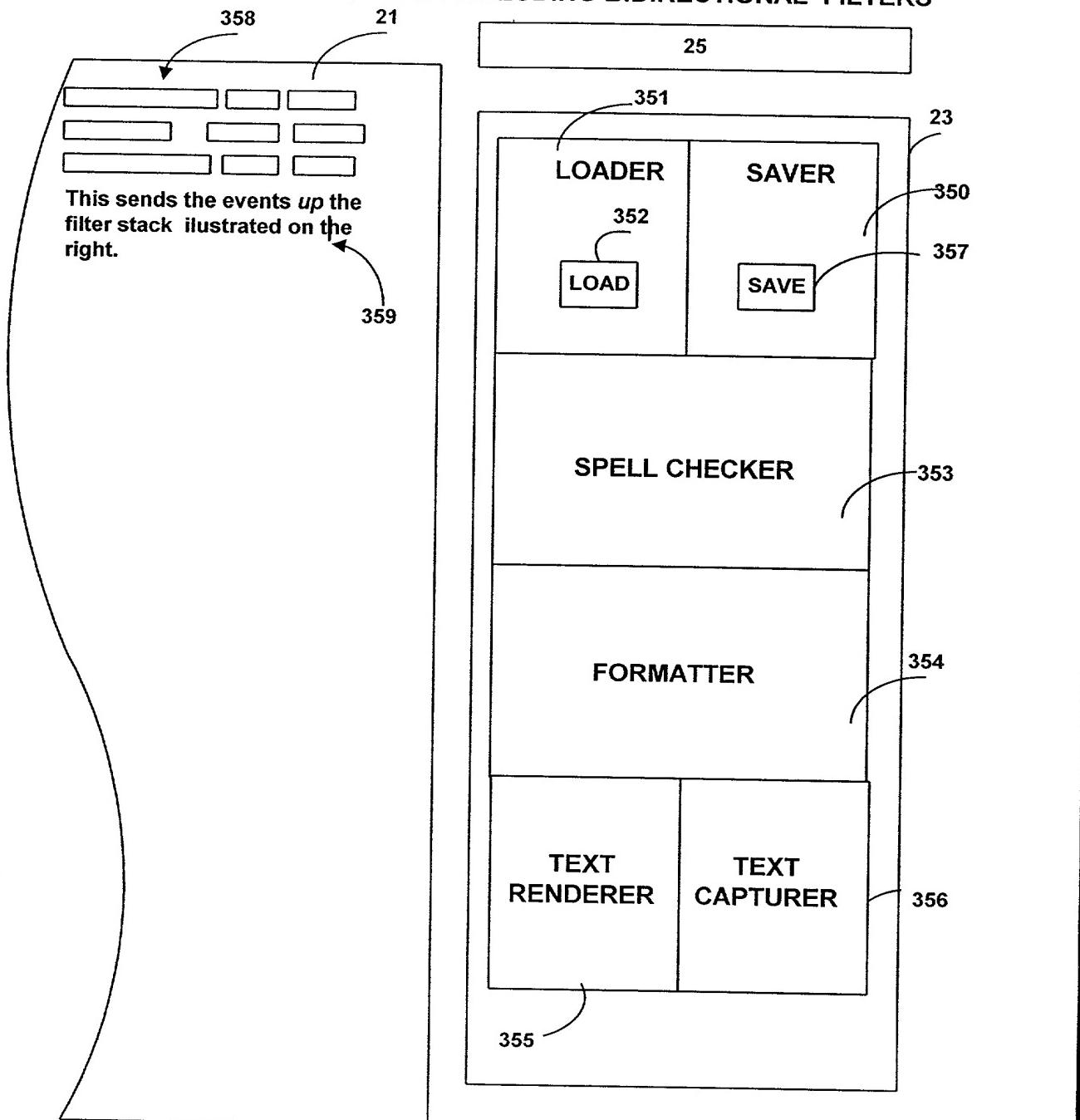
Fig 35
**GUI FOR A WORD PROCESSING APPLICATION FORMED FROM
FILTER SEQUENCE INCLUDING BIDIRECTIONAL FILTERS**


Fig 36

DIAGRAM EDITING APPLICATION FORMED FROM FILTER SEQUENCE INCLUDING BIDIRECTIONAL FILTERS

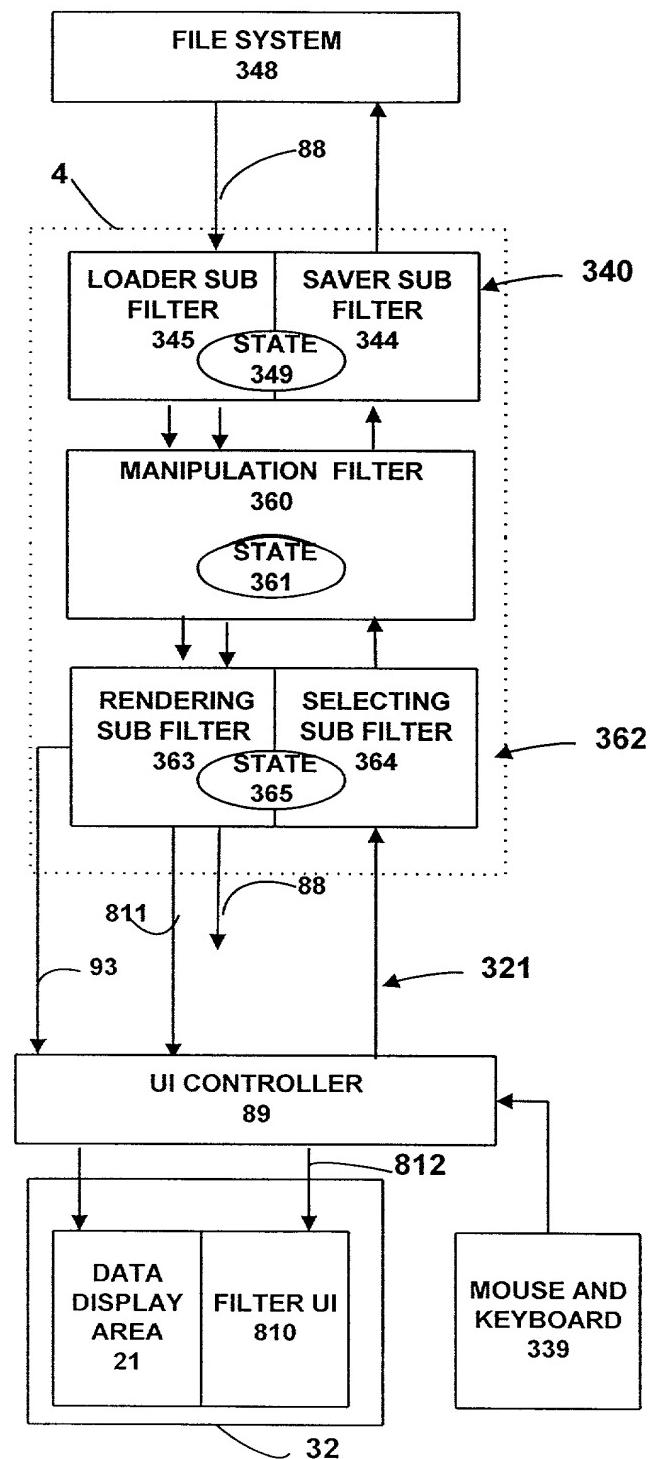
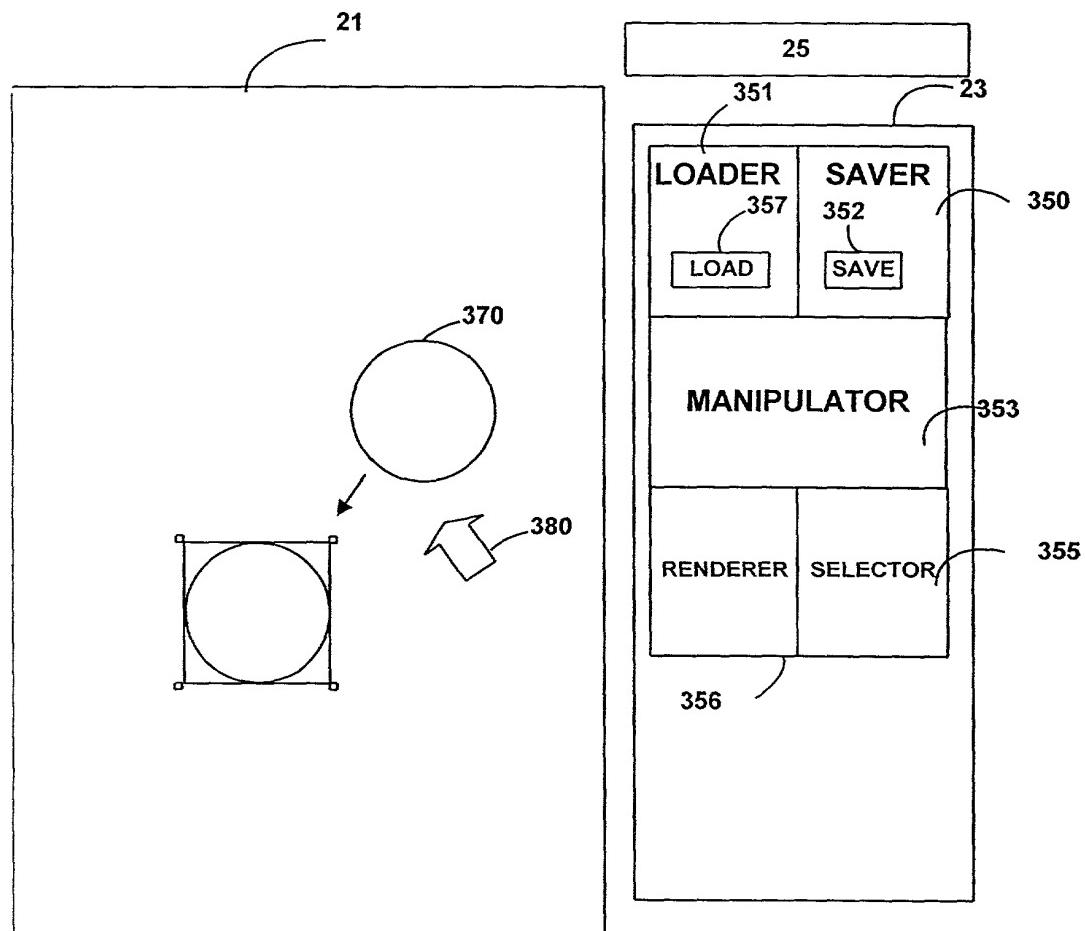


Fig 37

GUI FOR A DIAGRAM EDITING APPLICATION FORMED FROM FILTER SEQUENCE INCLUDING BIDIRECTIONAL FILTERS



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DISPLAY AREA FOR A DIAGRAM
EDITING OPERATION

Fig 38A

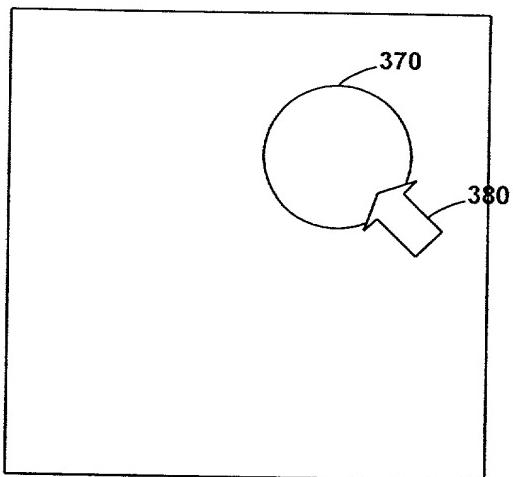


Fig 38B

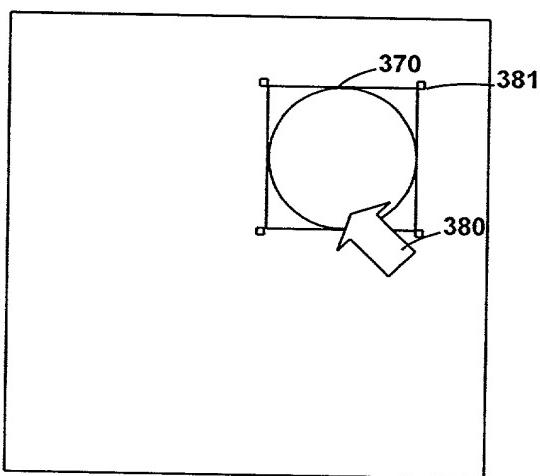


Fig 38C

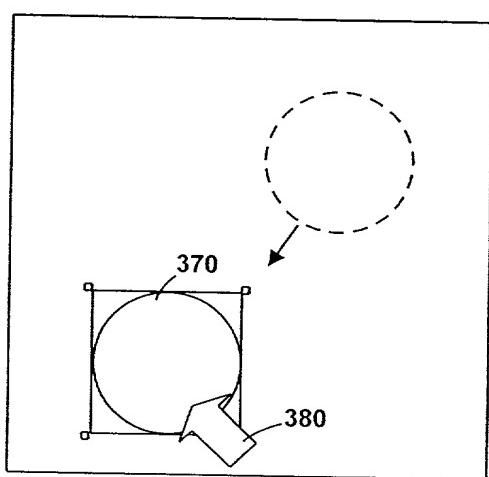


Fig 39

DIAGRAM EDITING APPLICATION WITH UNDO FILTER

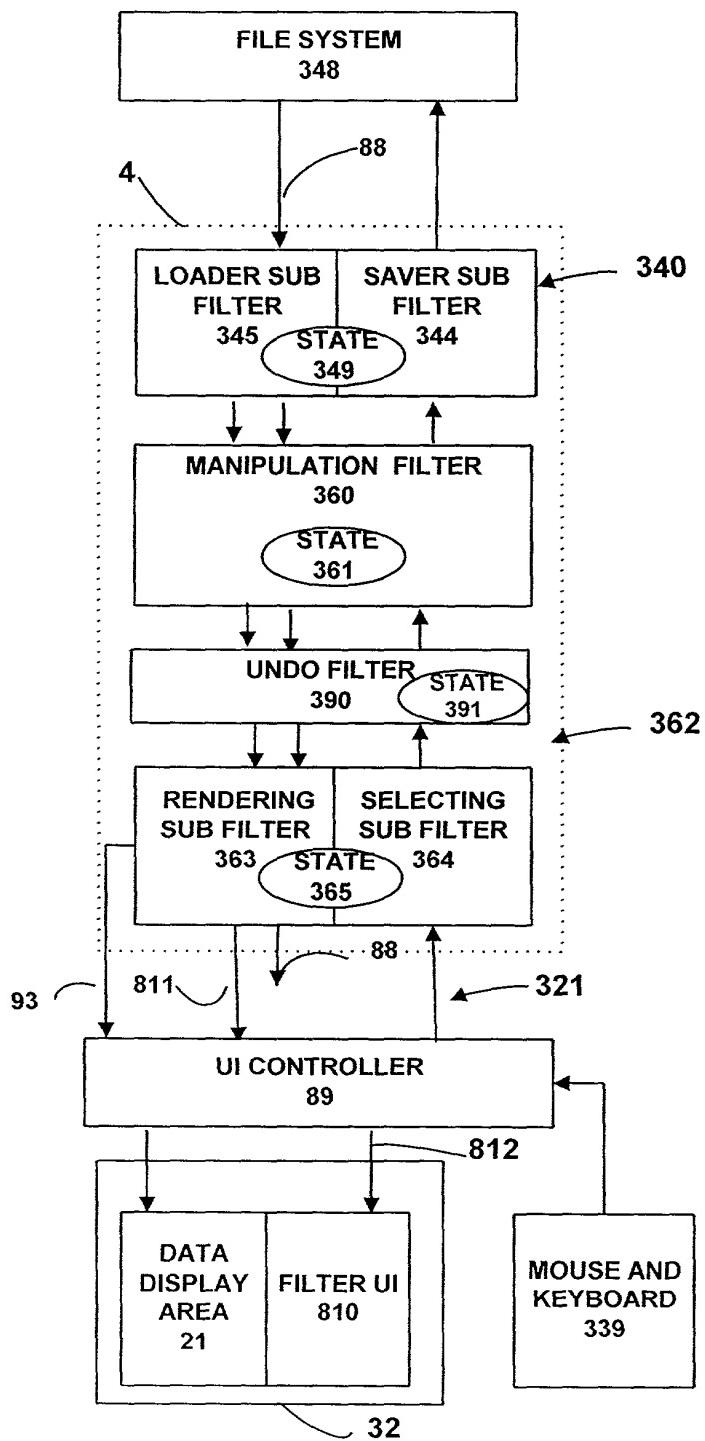


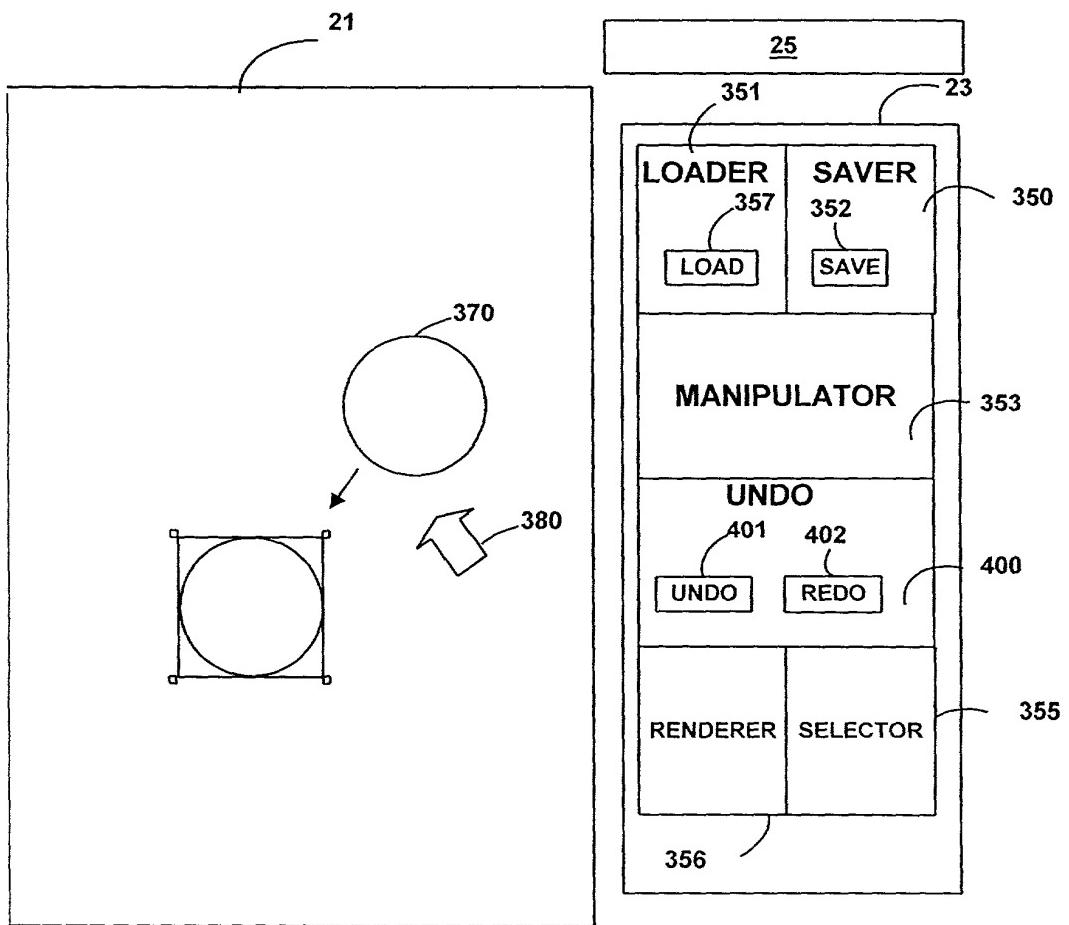
Fig 40**GUI FOR A DIAGRAM EDITING APPLICATION WITH UNDO FILTER**

Fig 41

OVERALL VIEW OF SYSTEM

